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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,463	09/30/2005	Masatoshi Kuroda	050395-0355	4419
20277 75	90 11/01/2006	EXAMINER		
MCDERMOTT WILL & EMERY LLP			PHAN, THO GIA	
600 13TH STREET, N.W. WASHINGTON, DC 20005-3096			ART UNIT	PAPER NUMBER
WIBIIINGIO	1, 20 2000 2000		2821	
			DATE MAILED: 11/01/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/551,463	KURODA ET AL				
Office Action Summary	Examiner	Art Unit				
	Tho G. Phan	2821				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>30 S</u>	eptember 2005.					
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) 2-4 and 6-10 is/are allowed.	_					
6)⊠ Claim(s) <u>5</u> is/are rejected.	Claim(s) <u>5</u> is/are rejected.					
7)⊠ Claim(s) <u>1</u> is/are objected to.	☐ Claim(s) 1 is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers	·					
9)☐ The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	rity documents have been receiv	ed in this National Stage				
application from the International Burea	u (PCT Rule 17.2(a)).	-				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D					
Notice of Draftsperson's Patent Drawing Review (P10-948) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal I					
Paper No(s)/Mail Date <u>9/30/05</u> .	6)					

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DETAILED ACTION

Claim Objections

1. Claim 1 is objected to because of the following informalities:

In claim 1, line 15, "lens" (second occurrence) should be canceled.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

2. Claim 5 is rejected under 35 U.S.C. 102(a) as being anticipated by Takanari (JP 2002-232230) [submitted by Applicant].

Takanari in figures 1-7 discloses a hemispherical Luneberg lens 120,240,440 made of dielectric, a reflector 110,210430 having a size larger than the lens diameter and provided on a face equivalent to the cross-section made by halving a globular shape of the lens, a primary feed 290,300 to be arranged at a focus part of the lens, and an arched arm 280 for holding the primary feed, the arched arm being provided such that the arched arm can pass along, and with a constant distance apart from, the spherical surface of the lens, all of which are unitarily assembled together, wherein both ends of the arm can be moved (via 251,252) along a circular orbit which is concentric with the peripheral circumference of the lens, and wherein the primary feed

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is installed on the arm such that the primary feed can be moved in a longitudinal direction of the arm (figure 5).

Allowable Subject Matter

- 3. Claims 2-4 and 6-10 are allowed.
- 4. Claim 1 would be allowable if rewritten to overcome the above objection(s).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Migdal, Locus, Poncel et al., Hirtzlin et al., and Kuroda et al. are cited as of interested and illustrated a similar structure to a lens antenna device.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho G. Phan whose telephone number is 571-272-1826. The examiner can normally be reached on M-F, 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callahan Timothy can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Business Center (EBC) at 866-217-9197 (toll-free).

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